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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. |
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| 09/369,386 | 08/06/99 | TANEYA | M 914-101 |

WM02/0508

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EXAMINER

FIZIALI, J

ART UNIT

PAPER NUMBER

2673

DATE MAILED: 05/08/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

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| | | | |
|------------------------------|-------------------------------|-------------------------------|--|
| Office Action Summary | Application No. 09/369,386 | Applicant(s) TANEYA ET AL. | |
| | Examiner Jeff Piziali | Art Unit 2673 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 August 1999.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- | | |
|---|--|
| 15) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 18) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 16) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 19) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 17) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u> . | 20) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Kono et al. (6,191,764).

Regarding claim 1, Kono discloses an organic EL emission device [Fig. 1; 12] including first [Fig. 1; 19] and second [Fig. 1; 20 & 22] electrode layers, at least one of which is transparent; an organic light emission layer [Fig. 1; 18] for EL emission sandwiched between the first and second electrode layers, wherein at least the first electrode layer includes a plurality of electrodes arranged with spatial periodicity (see Column 3, Lines 11-58), and the plurality of electrodes included in the first electrode layer together with adjacent regions in the second electrode layer including at least one electrode form a plurality of electrode pair regions arranged with spatial periodicity, a method of driving the organic EL emission device, wherein electric fields with at least either different strengths or directions are applied with variation in a time-dependent manner to electrode pair regions adjacent to each other among the plurality of electrode pair regions (see Fig. 4A; Column 6, Lines 40-44).

Regarding claim 2, Kono discloses the electric fields with at least different strengths or directions to be applied to electrode pair regions adjacent to each other among the plurality of electrode pair regions are varied with a constant time periodicity [Fig. 4A; P_G & P_R] (see Column 6, Lines 40-44).

Regarding claim 3, Kono discloses alternating voltages [Fig. 4A; V_P & V_R] with opposite polarities are applied to electrode pair regions adjacent to each other among the plurality of electrode pair regions (see Column 6, Lines 40-44).

Regarding claim 4, Kono discloses at least the first electrode layer includes a plurality of electrodes in one of a dot-like form and a stripe-like form [Fig. 1; 19].

Regarding claim 5, Kono discloses the second electrode layer includes a plurality of stripe-like electrodes [Fig. 1; 22] positioned in parallel to the plurality of stripe-like electrodes included in the first electrode layer.

Regarding claim 6, Kono discloses the second electrode layer includes a plurality of stripe-like electrodes [Fig. 1; 20] arranged to intersect the plurality of stripe-like electrodes included in the first electrode layer.

Regarding claim 7, Kono discloses a first group of electrodes [Fig. 5; 19] including every other electrode are electrically connected to each other, and a second group of electrodes [Fig. 5;

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19] that remain beside the first group of electrodes are electrically connected to each other in the first electrode layer (see Column 7, Lines 10-28).

Regarding claims 8 and 9, Kono discloses a first group of electrodes [Fig. 5; 20] including every other electrode are electrically connected to each other, and a second group of electrodes [Fig. 5; 22] that remain beside the first group of electrodes are electrically connected to each other in the second electrode layer (see Column 7, Lines 10-28).

Regarding claim 10, Kono discloses an organic EL emission device [Fig. 1; 12] comprising first [Fig. 1; 19] and second [Fig. 1; 20 & 22] electrode layers, at least one of which is transparent; an organic light emission layer [Fig. 1; 18] for EL emission sandwiched between the first and second electrode layers; and voltage application means [Fig. 5; 101] for applying a voltage between an electrode included in the first electrode layer and an electrode included in the second electrode layer (see Column 7, Lines 10-28), wherein at least the first electrode layer includes a plurality of electrodes arranged with spatial periodicity (see Column 3, Lines 11-58), the plurality of electrodes included in the first electrode layer together with adjacent regions in the second electrode layer including at least one electrode form a plurality of electrode pair regions arranged with spatial periodicity, and the voltage application means applies electric fields with at least either different strengths or directions to electrode pair regions adjacent to each other among the plurality of electrode pair regions with variation in a time-dependent manner (see Fig. 4A; Column 6, Lines 40-44).

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Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Isaka et al. (4,949,019), Flegal et al. (4,982,183), Shoji et al. (5,032,829), Yamamoto et al. (5,206,631), Harju (5,451,978), Rebesch et al. (5,781,167), Osada et al. (5,973,456), Yamada et al. (5,990,629) and Kishita et al. (6,064,158) are cited to further evidence the state of the art regarding EL emission devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Piziali whose telephone number is (703) 305-8382. The examiner can normally be reached on Monday - Friday (6:30AM - 3PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (703) 305-4938. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-6606 for regular communications and (703) 308-9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.



J.P.

May 4, 2001



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